FOLIA MICROBIOLOGICA

VOLUME 22

1977

ACADEMIA SCIENTIARUM BOHEMOSLOVACA

Digitized by the Internet Archive
in 2023 with funding from
Kahle/Austin Foundation

https://archive.org/details/folia-microbiologica_1977_22_contents

CONTENTS

Abd El-Hamid M. M. see Abou Zeid A. A. . . . 47
Abou-Zeid A. A., Eissa A. I., El-Dewany A. I., Abd El-Hamid M. M., Fouad M., Fahmi M., Yassein M.: The Fermentative Production of Oxytetracycline on Industrial By-products by *Streptomyces rimosus* 12907 . . . 47
Bandre T. R., Šašek V.: Antibiotic Activity of Pyrenomycetes under Submerged Conditions . . . 269
Baráthová H., Betina V., Ulický L.: Regulation of Differentiation of the Dimorphic Fungus *Paecilomyces viridis* by Nitrogen Sources, Antibiotics and Metabolic Inhibitors . . . 222
Bartošová Z. see Greksák M. . . . 386
Betina V. see Baráthová H. . . . 222
Blumauerová M. see Královcová E. . . . 182, 321
Blumauerová M., Matějů J., Stajner K., Vaněk Z.: Studies on the Production of Daunomycinone-derived Glycosides and Related Metabolites in *Streptomyces coerulesorubidus* and *Streptomyces peucetius* . . . 275
Blumauerová M. see Klánová K. . . . 286
Braná H., Hubáček J., Michaljaničová D., Holubová I., Čejka K.: Membrane Mutation Affecting Energy-linked Functions in *Escherichia coli* K 12 . . . 198
Čáslavská J., Šťastná J., Vinter V.: Spores of Microorganisms. XXVII. Some Physiological and Morphological Characteristics of Thick-walled Cellular Forms of *Bacillus cereus* . . . 161
Čáslavská J. see Šťastná J. . . . 339
Čejka K. see Braná H. . . . 198
Černý M. see Kulhánek M. . . . 295
Desai J. D., Modi V. V.: Growth, Glucose Metabolism and Melanin Formation in Biotin-deficient *Aspergillus nidulans* . . . 55
Eissa A. I. see Abou-Zeid A. A. . . . 47
El-Dewany A. I. see Abou-Zeid A. A. . . . 47
Eroshin V. K. see Kuvshinnikov V. D. . . . 189
Ethiraj S. see Jaychandran S. . . . 74
Fahmi M. see Abou-Zeid A. A. . . . 47
Fouad M. see Abou-Zeid A. A. . . . 47
Ghosh S. see Sinha A. M. . . . 402
Greksák M. see Nejedlý K. . . . 19
Greksák M., Nejedlý K., Zborowski J.: Cardiolipin Synthesis during the Cell Cycle of the Yeast *Saccharomyces cerevisiae* . . . 30
Greksák M., Šubík J., Barošková Z., Greksáková O.: Relationship between the Structure of Carbonyl-cyanide Phenylhydrazones and Inhibition of Growth of Microorganisms, Stimulation of Respiration of Yeast Cells and Rat Liver Mitochondria . . . 386
Greksáková O. see Greksák M. . . . 386
Gupta A. R. see Rao K. K. . . . 216, 415
Hejtmánek M. see Hejtmánková N. . . . 248
Hejtmánková N., Lenhart K., Hejtmánek M., Komenda S.: Distribution of Nuclei in Macroconidia of *Microsporum gypseum* . . . 248
Hochmannová J. see † Šrogl M. . . . 353
Holubová I. see Braná H. . . . 198
Horák J., Kotyk A., Říhová L.: Specificity of Trans-Inhibition of Amino Acid Transport in Baker's Yeast . . . 360
Hubáček J. see Braná H. . . . 198
Chaloupka J., Strnadová M., Zalabák V.: Intracellular Proteolytic Activity during Sporulation of *Bacillus megaterium* . . . 1
Chatterjee G. C. see Sinha A. M. . . . 402
Janda J. see Mikulík K. . . . 252
Janda J. see Weiser J. . . . 329
Jandová Z. see Tichý P. . . . 346
Janeček J. see Jirešová M. . . . 168, 173
Jaychandran S., Sinha R. S., Ethiraj S., Tauro P.: Dependence of Yeast Sporulation on Mitochondrial Protein Synthesis . . . 74
Jezdinský V. see Rudiš M. . . . 128
Jiráňová A. see Mikulík K. . . . 252
Jirešová M., Janeček J.: The Activity of *Escherichia coli* DNA-Dependent RNA Polymerase on DNA Templates of Dirrerent Origin. The Effect of cAMP . . . 168
Jirešová M., Janeček J.: Inhibition of β--Galactosidase Synthesis in *Escherichia coli* after Infection with Dirrerent DNA and RNA Phagees . . . 173
Khanna R. N. see Singh R. S. . . . 396
Klánová K., Blumauerová M., Vaněk Z.: Spontaneous and Induced Variability in *Streptomyces nogalater* Producing Nogalamycin . . . 286

Klégr M. see † Šrogl M. . . . 353
Kocourek J. see Zouchová Z. . . . 61, 98
Komenda S. see Hejtmánková N. . . . 248
Koníček J., Lasík J., Wurst M.: Production and Characteristics of the Exocellular Polysaccharide in Mutant Strains of *Xanthomonas fuscans* . . . 12
Kotyk A. see Horák J. . . . 360
Kozar F., MacDonald B. R., Weijer J.: Ultrastructure of the Dikaryotic Form of *Cyathus bulleri* Brodie . . . 518
Královcová E., Blumauerová M., Vaněk Z.: The Effect of 5,5-Diethylbarbituric Acid on the Biosynthesis of Antracyclines in *Streptomyces galilaeus* . . . 182
Královcová E., Blumauerová M., Vaněk Z.: Strain Improvement in *Streptomyces galilaeus*, a Producer of Anthracycline Antibiotics Galirubins . . . 321
Kulhánek M., Tadra M., Pacák J., Trejbalová H., Černý M.: 5-Deoxy-5-fluorol-L-sorbose Originating from 2-deoxy-2-fluoro-D-glucitol by Fermentation with *Acetomonas oxydans* . . . 295
Kulhánek M., Tadra M.: Biochemical Dehydrogenations of Saccharides. IX. D-lyxo-5-Hexolusonic Acid from D-Mannose by *Acetomonas oxydans* Fermentation . . . 373
Kunc F., Rybářová J.: Microbial Activity in Soil Enriched with Preparations of AS-Lignin and Lignofulvic Acid . . . 376
Kuvshinnikov V. D., Sobotka M., Minkevich I. C., Eroshin V. K.: Dependence of Cell Yield and Specific Growth Rate of *Candida boidinii* on Temperature during Continuous Cultivation . . . 189
Lasík J. see Koníček J. . . . 12
Lenhart K. see Hejtmánková N. . . . 248
Levi M. I., Smirnova O. A.: Cyclic Kinetics and Mathematical Expression of the Primary Immune Response to Soluble Antigen. VII. Conveyer Hypothesis and its Mathematical Expression . . . 117
MacCordick J., Youinou M. Th., Wurtz B.: Effect of Iron — Beryllium, Antagonism on the Growth of *Pseudomonas fluorescens* Type S . . . 35
MacDonald R. B. see Kozar F. . . . 518
Mašková H. see Mikulík K. . . . 252
Matějů J. see Blumauerová M. . . . 275
Mehta A. M. see Rao K. K. . . . 216
Miersch J.: Transport of Ribitol and D-Glucose in the Yeast *Candida guillermondii* . . . 363
Michaljaničová D. see Braná H. . . . 198
Mikulík K., Janda I., Mašková H. Šťastná J., Jiráňová A.: Macromolecular Synthesis Accompanying the Transition from Spores to Vegetative Forms of *Streptomyces granaticolor* . . . 252
Mikulík K. see Weiser J. . . . 329
Mikulík K. see Šťastná J. . . . 339
Minkevich I.G. see Kuvshinnikov V. D. . . . 189
Modi V. V. see Desai J. D. . . . 55
Musílek V. see Zouchová Z. . . . 61, 98
Musílek V. see Semerdžieva M. . . . 303
Musílek V., Somerdžieva M.: Antifungal Antibiotic of the Basidiomycete *Oudemansiella mucida*. II. Life Cycle and Fructification of the Producing Fungus . . . 298
Nejedlý K., Greksák M.: Activites of Mitochondrial Enzymes during Aerobic Synchronous Growth of Aerobically and Anaerobically Grown *Saccharomyces cerevisiae* . . . 19
Nejedlý K. see Greksák M. . . . 30
Nešvera J.: Cyanide-Insensitive Respiration in *Schizophylium commune* . . . 206
Nešvera J. see † Šrogl M. . . . 353
Netrval J.: Stimulation of L-Asparaginase Production in *Escherichia coli* by Organic and Amino Acids 106
Pacák J. see Kulhánek M. . . . 295
Pavlasová E., Stejskalová E., Sikyta B.: Simultaneous and Successive Induction of Synthesis of β-Galactosidase and Tryptophanase in *Escherichia coli* K 12 in the Chemostat . . . 241
Piršel M., Slezáriková V.: Correlation between Survival, Ability to Re-join DNA and Stability of DNA after Preirradiation Inhibition of Protein Synthesis in a *rec*⁻ Mutant of *Escherichia coli* K 12 . . 66
Plachý J., Sikyta B.: Production of L-Aspartic Acid from Fumaric Acid by *Alcaligenes metacaligenes* CCEB 312 . . . 410
Ramos-Cormenzana A. see Ruiz-Berraquero F. . . . 40
Rao K. K., Mehta A. M., Gupta A. R.: Phosphate Uptake and Involvement of Binding Protein in Tween-80 Supplemented Culture of *Aspergillus fumigatus* . . . 216
Rao K. K., Gupta A. R., Singh V. K.: Effect of Phosphate on Ergot Alkaloid Synthesis in *Aspergillus fumigatus* . . . 415
Říhová L. see Horák J. . . . 360
Rudiš M., Jezdinský V., Šterbáček Z.: Physical Properties of Microbial Suspensions. II. Properties of Microbial Suspensions and their Supernatants during Fermentation Conditions . . . 128
Ruiz-Berraquero F., Ramos-Cormenzana A.: Relationship between Amino Acid Production and Phosphate-dissolving Capacity of Bacteria . . . 40
Rybářová J. see Kunc F. . . . 376

Sam C. T.: Effect of Nutrient Variations on Growth and Brefeldin A Formation in *Curvularia lunata* 43
Šašek V. see Bandre T. R. . . . 269
Šedliaková M., Slezáriková V.: Repair, Replication and Survival in UV-Irradiated *Escherichia coli* . 81
Semerdžieva M. see Musílek V. . . . 298
Semerdžieva M., Musílek V.: Antifungal Antibiotic of the Basidiomycete *Oudemansiella mucida*. III. Nuclei in the Hyphae of Mono- and Dikaryons . . . 303
Sidhu R. S. see Jaychandran S. . . . 74
Singh R. S., Khanna R. N.: Population Dynamics of *Fusarim* spp. in Pea Rhizosphere as Affected by Soil Amendments . . . 396
Singh V. K. see Rao K. K. . . . 415
Sinha A. M., Ghosh S., Chatterjee G. C.: Effect of Rifampicin on Tryptophanase Induction in Normal and Rifampicin Resistant *Vibrio el tor* . . . 402
Sikyta B. see Pavlasová E. . . . 241
Sikyta B. see Plachý J. . . . 410
Slezáriková V. see Piršel M. . . . 66
Slezáriková V. see Sedliaková M. . . . 81
Šlosárek M.: Cytochemical and Biological Properties of *Mycobacterium bovis* BCG . . . 262
Smirnova O. A. see Levi M. I. . . . 117
Sobotka M. see Kuvshinnikov V. D. . . . 189
† Šrogl M., Hochmannová J., Nešvera J., Štokrová J., Klégr M.: Transforming Activity of Plasmic and Chromosomal DNA in *Escherichia coli* . . . 353
Štajner K. see Blumauerová M. . . . 275
Šťastná J. see Čáslavská J. . . . 161
Šťastná J. see Mikulík K. . . . 252
Šťastná J., Čáslavská J., Wolf A., Vinter V., Mikulík K.: Origin and Morphology of Atypical Forms of *Streptomyces granaticolor* . . . 339
Stejskalová E. see Pavlasová E. . . . 241
Štěrbáček Z. see Rudiš M. . . . 128
Štokrová J. see † Šrogl M. . . . 353
Strnadová M. see Chaloupka J. . . . 1
Šubík J. see Greksák M. . . . 386
Tadra M. see Kulhánek M. . . . 295, 373
Tauro P. see Jaychandran S. . . . 74
Tax J. see Weiser J. . . . 329
Tichý P., Jandová Z.: Transformation in *Bacillus subtilis*. Initial Stages of the Transformation Process and Their Energy Dependence . . . 346
Trejbalová H. see Kulhánek M. . . . 295
Ulický L. see Baráthová H. . . . 222
Vaněk Z.: Anthracyclines (a review) . . . 132
Vaněk Z. see Královcová E. . . . 182, 321
Vaněk Z. see Blumauerová M. . . . 275
Vaněk Z. see Klánová K. . . . 286
Vinter V. see Čáslavská J. . . . 161
Vinter V. see Šťastná J. . . . 339
Weiyer J. see Kozar F. . . . 518
Weiser J., Janda I., Mikulík K., Tax J.: Interaction of Granaticin B with the Transcription System of *Bacillus subtilis* . . . 329
Wolf A. see Šťastná J. . . . 339
Wurst B. see MacCordick J. . . . 35
Wurst M. see Koníček J. . . . 12
Zahradník F. J.: Streptococcal Extracellular NAD-Glycohydrolase. Optimal Temperature and Activation by Cysteine . . . 92
Zalabák V. see Chaloupka J. . . . 1
Zborovski J. see Greksák M. . . . 30
Zouchová Z., Kocourek J., Musílek V.: α-Mannosidase and Mannanase of Some Wood-rotting Fungi 61
Zouchová Z., Kocourek J., Musílek V.: Separation and Properties of α-Mannosidase and Mannanase from the Basidiomycete *Phellinus abietis* . . . 98
Yassein M. see Abou-Zeid A. A. . . . 47
Youinou M. Th. see MacCordick J. . . . 35

Brief Reports

† Čapek A., Fassatiová O.: Some Biochemical Characteristics of Species of the Genus *Beauveria* . 308
Fassatiová O. see † Čapek A. . . . 308
Gaur Y. D., Marečková H.: Absence of 3-Ketolactose Production by *Rhizobium phaseoli* . . . 311

Jirků V. see Křelinová O. . . . 134
Kasal P. see Trávníček J. . . . 523
Král J. see Trávníček J. . . . 523
Křelinová O., Jirků V., Škoda J.: Cellulolytic Activity of Bacterial Symbionts of Wood-Destroying Insects . . . 134
Linek K. see Zemek J. . . . 239
Mandel L. see Trávníček J. . . . 523
Marečková H. see Gaur Y. D. . . . 311
Mydlil V. see Trávníček J. . . . 523
Piršel M. see Slezáriková M. . . . 232
Prachař J. see Sedliaková M. . . . 232
Sedliaková M., Prachař J., Piršel M.: Replication of DNA in UV-Irradiated *Escherichia coli* in the Absence of Amino Acids . . . 232
Sedliaková M., Slezáriková V.: Involvement of UV-Induced Protein in the Reinitiation of DNA Replication in UV-Irradiated *Escherichia coli* . . . 313
Sedliaková M., Slezáriková V.: Involvement of UV-Induced Protein in Elongation of DNA Short Pieces Synthesized in UV-Irradiated *Escherichia coli* B/r Hcr$^+$ . . . 420
Škoda J. see Křelinová O. . . . 134
Slezáriková V. see Sedliaková M. . . . 313, 420
Šťastná J.: A Method of Rapid Wetting and Synchronous Germination of Streptomycete Spores . . . 137
Tichý P.: Growth of Protoplasts of *Bacillus subtilis* on Solid Media Studied by Photomicrography . 79
Trávníček J., Mandel L., Kasal P., Král J., Mydlil V.: Equipment for Germ-free Caesarean Section and Care of a Baby . . . 523
Zemek J., Linek K.: Antibacterial Effects of Some Sugar Hydrazones . . . 239

Annual Conference of the Czechoslovak Commission for Yeasts . . . 424
Thirteenth Annual Meeting of the Czechoslovak Society for Microbiology . . . 433

Obituary

RNDr. J. J. Macura, DrSc. . . . before 433
Book Reviews . . . 160, 239, 317, 432